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1	63	101/478.ccls.	USPAT; US-PGPUB	2003/08/26 13:59
2	2399	101/453-467.ccls.	USPAT; US-PGPUB	2003/08/26 14:00
3	22	101/453-467.ccls. and (eras\$ or recycl\$ or reus\$) near5 (substrate or support)	USPAT; US-PGPUB	2003/08/26 14:06
4	9	("3679418" "4292397" "4718340" "4777109" "5062364" "5272979" "5317970" "5870955" "6024019").PN.	USPAT	2003/08/26 14:05
5	84	101/453-467.ccls. and (reclaim\$ or clean\$) near5 (substrate or support)	USPAT; US-PGPUB	2003/08/26 14:10
6	7	101/453-467.ccls. and (reclaim\$)	USPAT; US-PGPUB	2003/08/26 14:10

	Document ID
1	US 20030152847 A1
2	US 6420091 B1
3	US 6389970 B1
4	US 5988066 A
5	US 5699739 A
6	US 3884149 A
7	US 3773601 A

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Brief Summary Text - BSTX (37):

All the steps of the method of the present invention are preferably performed on-press. Alternatively, the lithographic substrate can also be mounted on a drum in a dedicated coating apparatus (off-press coating) and subsequently be mounted on a plate setter for image-wise exposure (off-press). Then, the printing master thus obtained can be mounted on a press cylinder and printing is started by supplying ink and a fountain solution. After the press-run, the plate can be cleaned as described above, either on-press or in a dedicated cleaning apparatus, and the recycled substrate can then be used again in a next printing cycle.

— probably developed on press by ink & dampens

Detailed Description Text - DETX (15):

Recycling of the Lithographic Substrate

Claims Text - CLTX (1):

1. A direct-to-plate method of lithographic printing with a reusable substrate having a hydrophilic surface, the method including the steps of (a) making a negative-working imaging material by coating on the hydrophilic surface a coating solution comprising hydrophobic thermoplastic polymer particles and a hydrophilic binder; (b) making a printing master having ink-accepting areas by image-wise exposing the imaging material; (c) applying ink and fountain solution to the printing master; (d) removing the ink-accepting areas from the printing master by supplying a cleaning liquid comprising an amide and an alkanolamine.

Current US Original Classification - CCOR (1):

101/467

US-PAT-NO: 4116715

DOCUMENT-IDENTIFIER: US 4116715 A

TITLE: Method for removing photopolymers
from metal substrates

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Brief Summary Text - BSTX (3):

Photoinitiated polymerized plates are used in the printing industry. It is conventional to dispose of such plates subsequent to printing because there is no known technique for readily removing the polymer without harming the underlying substrate of the plate. This is wasteful as the plates, typically formed of aluminum, could be reused if an effective technique were developed for cleaning.

Detailed Description Text - DETX (11):

The present invention resides in the discovery that the developed photopolymer layer on a printing plate of the foregoing type may be completely, removed in a simple and efficient manner. Thus, after printing, the metal substrates may be recycled for repeated use.

Current US Cross Reference Classification - CCXR (3):

101/465

Current US Cross Reference Classification - CCXR (4):

101/467

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